

MOTIONLESS ELECTROMAGNETIC TURBINE

ABSTRACT

An electromagnetic turbine without moving parts includes a magnetic core with three magnetic paths and magnetic connectors arranged between the three paths forming two adjacent closed magnetic loops. Three coils extend individually around portions of each magnetic path. The three coils are electrically pulsed to provide current pulses in the coils. Driving electrical current through each of the coils in sequence results in a flow of magnetic flux external to the magnetic core. The sequence is arranged to create a continuous one-way flow of magnetic flux through the inside of the core, then out one end where the flux extends outward and sweeps external to the core to the opposite end of the core where the flux collapses into the core. The sweeping magnetic flux induces electrical currents into electrically conductive material external to and not part of the turbine. Magnetic flux from the external currents interacts with the sweeping flux, resulting in a net force. The force either absorbs energy from relative deceleration of external material, converting the deceleration to electrical energy; or electrical energy provides relative acceleration of external material, converting the electrical energy to acceleration.

